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- 1** Scalable and adaptive streaming for non-linear media

David Gotz

October 2006 **MULTIMEDIA '06**: Proceedings of the 14th annual ACM international conference on Multimedia

Publisher: ACM

Full text available: Pdf (193.53 KB) Additional Information: full citation, abstract, ref

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 66, Citation

Streaming of linear media objects, such as audio and video, has become a part of our everyday life on the Internet. Large groups of users regularly tune in to a wide variety of on-line media, such as video clips, radio shows, sports events, and news coverage. However, ...

Keywords: multimedia, non-linear, scalable, streaming

- 2** Offline and data stream algorithms for efficient computation of synopsis

Sudipto Guha, Kyuseok Shim

August 2005 **VLDB '05**: Proceedings of the 31st international conference on Very Large Data Bases**Publisher:** VLDB Endowment

Full text available: Pdf (82.23 KB) Additional Information: full citation, abstract, inc

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 27, Citation

Synopsis and small space representations are important data analysis techniques used in OLAP/DSS systems, approximate query answering, query optimization, and data mining. These techniques represent the input in terms of broader characteristics ...

- 3** Proceedings of the 2003 ACM SIGMOD international conference on Management of Data

Yannis Papakonstantinou, Alon Halevy, Zachary Ives

June 2003 **SIGMOD '03**: Proceedings of the 2003 ACM SIGMOD international conference on Management of data**Publisher:** ACM

Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

The 2003 ACM SIGMOD International Conference on Management of Data was held in San Diego, California. This year, SIGMOD was part of the Federated Conference on Computer Science and Technology (FCRC-2003), which included a total of 16 conferences and workshops.

- 4** TinyDB: an acquisitional query processing system for sensor networks

Samuel R. Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong

March 2005 **Transactions on Database Systems (TODS)**, Volume 30 Issue 1**Publisher:** ACM

Full text available:

Additional Information: full citation, abstract, ref

Bibliometrics: Downloads (6 Weeks): 66, Downloads (12 Months): 4627, Citations: 10

We discuss the design of an acquisitional query processor for data collection systems. Acquisitional issues are those that pertain to where, when, and how often data is acquired (*sampled*) and delivered to query processing ...

Keywords: Query processing, data acquisition, sensor networks

5 The design of an acquisitional query processor for sensor networks

Samuel Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong

June 2003 **SIGMOD '03: Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Publisher: ACM

Full text available: Pdf (485.52 KB) Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 232, Citations: 10

We discuss the design of an acquisitional query processor for data collection systems. Acquisitional issues are those that pertain to where, when, and how often data is acquired (*sampled*) and delivered to query processing ...

6 Event queries on correlated probabilistic streams

Christopher Ré, Julie Lechner, Magdalena Balazinska, Dan Suciu

June 2008 **SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on Management of data**

Publisher: ACM

Full text available: Pdf (1.18 MB) Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 329, Citations: 10

A major problem in detecting events in streams of data is that the data is often noisy (e.g., RFID data). However, current state-of-the-art event detection systems such as [46] or SnooplB[1], assume the data is *precise*. ...

Keywords: hidden markov models, probabilistic databases, query processing

7 Events and streams: harnessing and unleashing their synergy!

Sharma Chakravarthy, Raman Adaikalavan

July 2008 **DEBS '08: Proceedings of the second international conference on Data engineering for business systems**

Publisher: ACM

Full text available: Pdf (804.13 KB) Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 291, Citations: 10

One of the purposes of this paper is to demonstrate the ubiquitous nature of complex events in situation monitoring and other unforeseen applications. The paper retrospectively analyzes the progress of event-based capability ...

Keywords: complex event processing, data stream processing, expressive information security, monitoring applications

8 A generic component model for building systems software

Geoff Coulson, Gordon Blair, Paul Grace, Francois Taiani, Ackbar Jotila, Keerthi Thirunavukkarasu, Sivaharan

Component-based software structuring principles are now commonplace but componentization is far less established when it comes to building large systems. Although there have been pioneering efforts in applying componentization to

Keywords: Component-based software, computer systems implementation

9 Communications of the ACM: Volume 52 Issue 7

July 2009 Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#), [PDF](#) (7.61 MB) Additional Information: full citation, abstract, ref

Bibliometrics: Downloads (6 Weeks): 938, Downloads (12 Months): 938, Citations

10 Sensing and using social context

Brett Adams, Dinh Phung, Svetha Venkatesh

November 2008 **Transactions on Multimedia Computing, Communications and Applications (TOMCCAP)** , Volume 5 Issue 2

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (13.80 MB) Additional Information: full citation, abstract, ref

Bibliometrics: Downloads (6 Weeks): 61, Downloads (12 Months): 373, Citations

We present online algorithms to extract social context: Social spheres a significance, represented as convex hulls extracted from GPS traces. Combining Bluetooth and GPS to extract social rhythms, patterns in ...

Keywords: Multimedia browsing, social context

11 MPEG-4: an object-based multimedia coding standard supporting multi media applications

Atul Puri, Alexandros Eleftheriadis

June 1998 **Mobile Networks and Applications** , Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: [PDF](#) (747.80 KB) Additional Information: full citation, abstract, ref, review

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 145, Citations

The ISO MPEG committee, after successful completion of the MPEG-1 and currently working on MPEG-4, the third MPEG standard. Originally, MPEG-1 standard for coding of limited complexity audio-visual scenes ...

12 Interactive TV narratives: Opportunities, progress, and challenges

Marian F. Ursu, Maureen Thomas, Ian Kegel, Doug Williams, Mika Tuomola

Wright, Andra Leurdkijk, Vilmos Zsombori, Julia Sussner, Ulf Myrestam, Ningning

October 2008 **Transactions on Multimedia Computing, Communications and Applications (TOMCCAP)** , Volume 4 Issue 4

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (28.03 MB) Additional Information: full citation, abstract, ref

Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 407, Citations

This article is motivated by the question whether television should do more than just tell stories ...

interactive services alongside (and separately from) traditional linear pr its dominance being seriously challenged and threatened ...

Keywords: Interactive, computational narrativity, digital storytelling, e narrativity, nonlinear, screen media, shapeshifting, television

- 13** Hancock: A language for analyzing transactional data streams

Corinna Cortes, Kathleen Fisher, Daryl Pregibon, Anne Rogers, Frederick S. March 2004 **Transactions on Programming Languages and Systems (**

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf \(217.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 100, Citation

Massive transaction streams present a number of opportunities for data transactions in such streams might represent calls on a telephone network, purchases, stock market trades, or HTTP requests to a web ...

Keywords: Domain-specific languages, data mining, statistical models

- 14** Cascadia: A System for Specifying, Detecting, and Managing RFID Events

Evan Welbourne, Nodira Khousainova, Julie Leitchner, Yang Li, Magdalena Borriello, Dan Suciu

June 2008 **MobiSys '08: Proceeding of the 6th international conference on mobile systems, applications, and services**

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf \(805.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 286, Citation

Cascadia is a system that provides RFID-based pervasive computing api infrastructure for specifying, extracting and managing meaningful high-data. Cascadia provides three important services. First, it allows ...

Keywords: RFID, data management, event detection, event specification

- 15** Flight data recorder: monitoring persistent-state interactions to improve reliability

Chad Verbowski, Emre Kiciman, Arunvijay Kumar, Brad Daniels, Shan Lu, , Roussi Roussey

November 2006 **OSDI '06: Proceedings of the 7th symposium on Operating system design and implementation**

Publisher: USENIX Association

Full text available: [Pdf \(457.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 65, Citation

Mismanagement of the persistent state of a system---all the executable and other data that govern how a system functions---causes reliability p vulnerabilities, and drives up operation costs. Recent research ...

- 16** Efficient pattern matching over event streams

Jagrati Agrawal, Yanlei Diao, Daniel Gyllstrom, Neil Immerman

June 2008 **SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on Management of data**

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf \(720.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 52, Downloads (12 Months): 607, Citations ...

Pattern matching over event streams is increasingly being employed in financial services, RFID-based inventory management, click stream analysis systems. While regular expression matching is well studied, pattern ...

Keywords: event streams, pattern matching, query optimization

- 17 [MediAEther: an event space for context-aware multimedia experience](#)

Susanne Böll, Utz Westermann

November 2003 **ETP '03: Proceedings of the 2003 ACM SIGMM workshop on**

Publisher: ACM

Full text available: Pdf (357.64 KB)

Additional Information: full citation, abstract, ref

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 25, Citation ...

Today, more and more events of interest all over the world such as pre-concerts, soccer matches, breaking news, etc. become available on the content like pictures, video and audio streams, or web pages. These ...

Keywords: multimedia event distribution and notification, peer-to-peer

- 18 [EventScript: an event-processing language based on regular expressions](#)

Norman H. Cohen, Karl Trygve Kalleberg

June 2008 **LCTES '08: Proceedings of the 2008 ACM SIGPLAN-SIGBED conference on compilers, and tools for embedded systems**

Publisher: ACM

Full text available: Pdf (355.34 KB)

Additional Information: full citation, abstract, ref

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 164, Citation ...

EventScript is a simple but powerful language for programming reactive systems. Incoming events are matched against a regular expression. Actions embedded in the expression are executed in response to the matching of patterns ...

Keywords: actuators, event processing, reactive programs, regular expressions

Also published in:

June 2008 **SIGPLAN Notices** Volume 43 Issue 7

- 19 [SensEye: a multi-tier camera sensor network](#)

Purushottam Kulkarni, Deepak Ganeshan, Prashant Shenoy, Qifeng Lu

November 2005 **MULTIMEDIA '05: Proceedings of the 13th annual ACM international conference on Multimedia**

Publisher: ACM

Full text available: Pdf (471.58 KB)

Additional Information: full citation, abstract, ref

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 178, Citation ...

This paper argues that a camera sensor network containing heterogeneous sensors has numerous benefits over traditional homogeneous sensor networks. We present the implementation of *senseye*--a multi-tier network of heterogeneous ...

Keywords: camera sensors, hierarchical sensor networks

 Structured multimedia authoring

Dick C. A. Butterman, Lynda Hardman

February 2005 **Transactions on Multimedia Computing, Communications
(TOMCCAP)**, Volume 1 Issue 1**Publisher:** ACM  Request PermissionsFull text available:  Pdf (7.07 MB) Additional Information: full citation, abstract, ref**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 192, Citatic

Authoring context sensitive, interactive multimedia presentations is much more complex than either purely audiovisual applications or text. Interactions among components can be described as a set of spatio-temporal relationships that ...

Keywords: Multimedia authoring, SMIL, hypermedia, synchronization

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